

# Epoxy DPM

## Damp Tolerable Epoxy DPM (Part A - Resin)

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER

- Product name: Epoxy DPM - Part A
- Product code: 810

#### 1.2 RELEVANT IDENTIFIED USE OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

- Relevant uses: Resin. For professional users/industrial user only.
- Uses advised against: All uses not specified in this section or in section 7.3

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- Company name: Newton Waterproofing Systems, Newton House, 17-19 Sovereign Way, Tonbridge, Kent TN9 1RH
- Website: [www.newtonwaterproofing.co.uk](http://www.newtonwaterproofing.co.uk)
- Email address of the competent person: [info@newtonwaterproofing.co.uk](mailto:info@newtonwaterproofing.co.uk)
- Emergency telephone number: +44 (0)1732 360 095  
9am - 5pm (GMT) Mon - Fri

### 2. HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GB CLP Regulation:

Classification of this product has been carried out in accordance with GB CLP Regulation.

- Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
- Eye Irrit. 2: Eye irritation, Category 2, H319
- Skin Irrit. 2: Skin irritation, Category 2, H315
- Skin Sens. 1: Sensitisation, skin, Category 1, H317

#### 2.2 LABEL ELEMENTS

GB CLP Regulation:

Warning



Hazard statements:

- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Skin Irrit. 2: H315 - Causes skin irritation.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.

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### Precautionary statements:

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264: Wash thoroughly after use.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P391: Collect spillage.
- P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

### Supplementary information:

- EUH205: Contains epoxy constituents. May produce an allergic reaction. Contains oxirane, mono[(C12-14-alkyloxy)methyl] derivs., Pine oil.
- EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### Substances that contribute to the classification

- reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ); Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

### 2.3 OTHER HAZARDS:

- Non-applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCE:

- Non-applicable

### 3.2 MIXTURE:

- Chemical description: Mixture composed of additives and epoxy polymers
- Components: In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

| Identification  | Chemical name/Classification   | Concentration |
|-----------------|--|---------------|
| CAS: 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 )<br>Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning      | 50 - <75 %    |
| CAS: 9003-36-5  | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning | 25 - <50 %    |
| CAS: 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.<br>Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning  | 10 - <25 %    |
| CAS: 13463-67-7 | Titanium dioxide (aerodynamic diameter ≤ 10 µm)<br>Carc. 2: H351 - Warning   | 1 - <3 %      |
| CAS: 8002-09-3  | Pine oil Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Sens. 1: H317 -<br>Danger  | 0.1 - <0.5 %  |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

| Identification  | Specific concentration limit      |
|---|-----------------------------------|
| reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ) | % (w/w) >=5: Skin Irrit. 2 - H315 |
| CAS: 25068-38-6   | % (w/w) >=5: Eye Irrit. 2 - H319  |

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

- The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

- This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

- Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

- Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

## 5. FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Suitable extinguishing media:

- Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

- IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

- As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and consequently, can present a serious health risk.

### 5.3 Advice for firefighters:

- Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

Additional provisions:

- Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

- Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

- See section 8.

6.2 Environmental precautions:

- Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

- It is recommended:
- Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

- See sections 8 and 13.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

- Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

- Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

- Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

- Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

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|                |           |
|----------------|-----------|
| Minimum Temp.: | 2 °C      |
| Maximum Temp.: | 35 °C     |
| Maximum time:  | 24 Months |

### B.- General conditions for storage

- Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

- Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

- Substances whose occupational exposure limits have to be monitored in the workplace:
- EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification   | Occupational exposure limits |         |                       |
|--|------------------------------|---------|-----------------------|
| sur 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6               | WEL (8h)                     | 50 ppm  | 274 mg/m <sup>3</sup> |
|  | WEL (15 min)                 | 100 ppm | 548 mg/m <sup>3</sup> |
| Titanium dioxide (aerodynamic diameter ≤ 10 µm)<br>CAS: 13463-67-7 | WEL (8h)                     |         | 4 mg/m <sup>3</sup>   |
|  | WEL (15 min)                 |         |                       |

NULL:

### BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVs) - EH40/2005


| Identification  | NULL             | NULL                          | NULL       |
|---|------------------|-------------------------------|------------|
| Reaction mass of ethylbenzene and xylene<br>CAS: Non-applicable | 1030 mg/g (NULL) | Methyl hippuric acid in urine | Post shift |

### 8.2 Exposure controls:

#### A.- Individual protection measures, such as personal protective equipment

- As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.


#### B.- Respiratory protection

| Pictogram   | PPE                               | Remarks  |
|---|-----------------------------------|--|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

#### C.- Specific protection for the hands


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| Pictogram  | PPE                                   | Remarks  |
|--|---------------------------------------|--|
| <br>Mandatory hand protection | Protective gloves against minor risks | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018 |

- As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



### D.- Ocular and facial protection

| Pictogram  | PPE   | Remarks   |
|--|---|---|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

### E.- Body protection

| Pictogram | PPE                  | Remarks   |
|-----------|----------------------|---|
|           | Work clothing        | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |
|           | Anti-slip work shoes | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007                                 |

### F.- Additional emergency measures

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

### Environmental exposure controls:

- In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

### 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

#### Appearance:

|                          |                  |
|--------------------------|------------------|
| Physical state at 20 °C: | Liquid           |
| Appearance:              | Viscous          |
| Colour:                  | Several          |
| Odour:                   | Characteristic   |
| Odour threshold:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

#### Volatility:

|  |                       |
|--|-----------------------|
| Boiling point at atmospheric pressure: | 156 °C                |
| Vapour pressure at 20 °C:              | 433 Pa                |
| Vapour pressure at 50 °C:              | 2454.02 Pa (2.45 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *      |

#### Product description:

|  |                          |
|--|--------------------------|
| Density at 20 °C:                            | 1102.7 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 1.103                    |
| Dynamic viscosity at 20 °C:                  | Non-applicable *         |
| Kinematic viscosity at 20 °C:                | Non-applicable *         |
| Kinematic viscosity at 40 °C:                | >20.5 mm <sup>2</sup> /s |
| Concentration:                               | Non-applicable *         |
| pH:  | Non-applicable *         |
| Vapour density at 20 °C:                     | Non-applicable *         |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *         |
| Solubility in water at 20 °C:                | Non-applicable *         |
| Solubility properties:                       | Immiscible               |
| Decomposition temperature:                   | Non-applicable *         |
| Melting point/freezing point:                | Non-applicable *         |

#### Flammability:

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | Non Flammable (>60 °C) |
| Flammability (solid, gas): | Non-applicable *       |
| Autoignition temperature:  | 315 °C                 |
| Lower flammability limit:  | Non-applicable *       |
| Upper flammability limit:  | Non-applicable *       |

#### Particle characteristics:

|                             |                |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

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### 9.2 Other information:

#### Information with regard to physical hazard classes:

|  |                  |
|--|------------------|
| Explosive properties:  | Non-applicable * |
| Oxidising properties:  | Non-applicable * |
| Corrosive to metals:   | Non-applicable * |
| Heat of combustion:  | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

#### Other safety characteristics:

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

- No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

- Chemically stable under the conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

- Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

- Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight   | Humidity       |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable     | Not applicable   | Precaution              | Precaution | Not applicable |

### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

### 10.6 Hazardous decomposition products:

- See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

- The experimental information related to the toxicological properties of the product itself is not available



### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

#### B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.

- Contact with the eyes: Produces eye damage after contact.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3. IARC: Hydrocarbons, C9, aromatics (3); Titanium dioxide (aerodynamic diameter  $\leq 10 \mu\text{m}$ ) (2B); Reaction mass of ethylbenzene and xylene (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

#### F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

### Other information:

CAS 13463-67-7 Titanium dioxide (aerodynamic diameter  $\leq 10 \mu\text{m}$ ): The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$

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Specific toxicology information on the substances:

| Identification   | Acute toxicity  |               | Genus  |
|--|-----------------|---------------|--------|
| reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 )<br>CAS: 25068-38-6                         | LD50 oral       | >5000 mg/kg   |        |
|  | LD50 dermal     | >5000 mg/kg   |        |
|  | LC50 inhalation | >5 mg/L (4 h) |        |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>CAS: 9003-36-5 | LD50 oral       | >5000 mg/kg   |        |
|  | LD50 dermal     | >5000 mg/kg   |        |
|  | LC50 inhalation | >20mg/L (4 h) |        |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs.<br>CAS: 68609-97-2                                      | LD50 oral       | >5000 mg/kg   |        |
|  | LD50 dermal     | >5000 mg/kg   |        |
|  | LC50 inhalation | >5 mg/L (4 h) |        |
| Titanium dioxide (aerodynamic diameter ≤ 10 µm)<br>CAS: 13463-67-7                                     | LD50 oral       | 10000 mg/kg   | Rat    |
|  | LD50 dermal     | 10000 mg/kg   | Rabbit |
|  | LC50 inhalation | >5 mg/L (4 h) |        |
| Pine oil<br>CAS: 8002-09-3   | LD50 oral       | 3200 mg/kg    | Rat    |
|  | LD50 dermal     | >5000 mg/kg   |        |
|  | LC50 inhalation | >20 mg/L      |        |

Acute Toxicity Estimate (ATE mix):

| ATE mix    |                                     | Ingredient(s) of unknown toxicity |
|------------|-------------------------------------|-----------------------------------|
| Oral       | >5000 mg/kg (Calculation method)    | Non-applicable                    |
| Dermal     | >5000 mg/kg (Calculation method)    | Non-applicable                    |
| Inhalation | >20 mg/L (4 h) (Calculation method) | Non-applicable                    |

## 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available.

### 12.1 Toxicity:

Acute toxicity:

| Identification   | Concentration |                | Species | Genus      |
|--|---------------|----------------|---------|------------|
| reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 )<br>CAS: 25068-38-6                         | LC50          | >1 - 10 (96 h) |         | Fish       |
|  | EC50          | >1 - 10 (48 h) |         | Crustacean |
|  | EC50          | >1 - 10 (72 h) |         | Algae      |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>CAS: 9003-36-5 | LC50          | >1 - 10 (96 h) |         | Fish       |
|  | EC50          | >1 - 10 (48 h) |         | Crustacean |
|  | EC50          | >1 - 10 (72 h) |         | Algae      |
| Pine oil<br>CAS: 8002-09-3   | LC50          | >1 - 10 (96 h) |         | Fish       |
|  | EC50          | >1 - 10 (48 h) |         | Crustacean |
|  | EC50          | >1 - 10 (72 h) |         | Algae      |

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Chronic toxicity:

| Identification  | Concentration |                | Species       | Genus      |
|---|---------------|----------------|---------------|------------|
| reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ) | NOEC          | Non-applicable |               |            |
| CAS: 25068-38-6   | NOEC          | 0.3 mg/L       | Daphnia magna | Crustacean |

12.2 Persistence and degradability:

| Identification  | Degradability |                | Biodegradability |          |
|---|---------------|----------------|------------------|----------|
| reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ) | BOD5          | Non-applicable | Concentration    | 100 mg/L |
| CAS: 25068-38-6   | COD           | Non-applicable | Period           | 28 days  |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 0 %      |

12.3 Bioaccumulative potential:

| Identification  | Bioaccumulation potential |     |
|---|---------------------------|-----|
| reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ) | BCF                       | 4   |
| CAS: 25068-38-6   | Pow Log                   | 2.8 |
|   | Potential                 | Low |

12.4 Mobility in soil:

- Not available

12.5 Results of PBT and vPvB assessment:

- Non-applicable

12.6 Other adverse effects:

- Not described

## 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Waste management (disposal and evaluation):

- Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

- In accordance with Annex II of UK REACH the provisions related to waste management are stated.  
UK legislation: The Waste Regulations 2011.

## 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

- With regard to ADR 2021 and RID 2021:



- 14.1 UN number: UN3082
- 14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ))
- 14.3 Transport hazard class(es): 9
- Labels: 9

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- 14.4 Packing group: III
- 14.5 Environmental hazards: Yes
- 14.6 Special precautions for user  
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:  
Non-applicable

### Transport of dangerous goods by sea

- With regard to IMDG 39-18:



- 14.1 UN number: UN3082
- 14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ))
- 14.3 Transport hazard class(es): 9  
Labels: 9
- 14.4 Packing group: III
- 14.5 Marine pollutant: Yes
- 14.6 Special precautions for user  
Special regulations: 335, 969, 274  
EmS Codes: F-A, S-F  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
Segregation group: Non-applicable
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:  
Non-applicable

### Transport of dangerous goods by air

- With regard to IATA/ICAO 2021:



- 14.1 UN number: UN3082
- 14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
(reaction product: bisphenol-A-(epichlorhydrin) ( MW < 700 ))
- 14.3 Transport hazard class(es): 9  
Labels: 9
- 14.4 Packing group: III
- 14.5 Environmental hazards: Yes
- 14.6 Special precautions for user  
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:  
Non-applicable

### 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

- Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

### 16: OTHER INFORMATION

Legislation related to safety data sheets:

- This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H411: Toxic to aquatic life with long lasting effects.
- H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

- The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation:

- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
- Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
- Carc. 2: H351 - Suspected of causing cancer (Inhalation).
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Skin Irrit. 2: H315 - Causes skin irritation.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.

Advice related to training:

- Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- <http://echa.europa.eu>
- <http://eur-lex.europa.eu>

### Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- LC50: Lethal Concentration 50
- EC50: Effective concentration 50
- LogPOW: Octanolwater partition coefficient
- Koc: Partition coefficient of organic carbon
- UFI: unique formula identifier
- IARC: International Agency for Research on Cancer

# Epoxy DPM

## Damp Tolerable Epoxy DPM (Part B - Hardener)

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER

- Product name: Epoxy DPM - Part B
- Product code: 810
- Other means of identification: Non-applicable

#### 1.2 RELEVANT IDENTIFIED USE OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

- Relevant uses: Resin. For professional users/industrial user only.
- Uses advised against: All uses not specified in this section or in section 7.3

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- Company name: Newton Waterproofing Systems, Newton House, 17-19 Sovereign Way, Tonbridge, Kent TN9 1RH
- Website: [www.newtonwaterproofing.co.uk](http://www.newtonwaterproofing.co.uk)
- Email address of the competent person: [info@newtonwaterproofing.co.uk](mailto:info@newtonwaterproofing.co.uk)
- Emergency telephone number: +44 (0)1732 360 095  
9am - 5pm (GMT) Mon - Fri

### 2. HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GB CLP Regulation:

Classification of this product has been carried out in accordance with GB CLP Regulation.

- Acute Tox. 4: Acute toxicity, Category 4, H302+H332
- Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
- Eye Dam. 1: Serious eye damage, Category 1, H318
- Repr. 1B: Reproductive toxicity, Category 1B, H360F
- Skin Corr. 1B: Skin corrosion, Category 1B, H314
- Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

#### 2.2 LABEL ELEMENTS

GB CLP Regulation:

Danger



### Hazard statements:

- Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
- Repr. 1B: H360F - May damage fertility.
- Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
- Skin Sens. 1B: H317 - May cause an allergic skin reaction.

### Precautionary statements:

- P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
- P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

### Supplementary information:

- EUH071: Corrosive to the respiratory tract. Contains 2,4,6-tris(dimethylaminomethyl)phenol, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 3-aminopropyldimethylamine, 3-aminopropyltriethoxysilane, Bisphenol A, m-phenylenebis(methylamine).

### Substances that contribute to the classification

- benzyl alcohol; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; m-phenylenebis(methylamine); Bisphenol A; 2,4,6-tris(dimethylaminomethyl)phenol; 3-aminopropyldimethylamine; 3-aminopropyltriethoxysilane

### 2.3 OTHER HAZARDS:

Non-applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCE:

- Non-applicable

### 3.2 MIXTURE:

- Chemical description: Formulated polyamines
- Components: In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:



| Identification | Chemical name/Classification   | Concentration |
|----------------|--|---------------|
| CAS: 100-51-6  | benzyl alcohol<br>Acute Tox. 4: H302+H332 - Warning  | 25 - <50 %    |
| CAS: 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger                 | 10 - <25 %    |
| CAS: 1477-55-0 | m-phenylenebis(methylamine)<br>Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1B: H317;<br>EUH071 -<br>Danger | 10 - <25 %    |
| CAS: 80-05-7   | Bisphenol A<br>Eye Dam. 1: H318; Repr. 1B: H360F; Skin Sens. 1: H317; STOT SE 3: H335 - Danger   | 10 - <25 %    |
| CAS: 90-72-2   | 2,4,6-tris(dimethylaminomethyl)phenol<br>Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1B: H317 - Danger  | 10 - <25 %    |
| CAS: 109-55-7  | 3-aminopropyl dimethylamine<br>Acute Tox. 4: H302; Flam. Liq. 3: H226; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger  | 10 - <25 %    |
| CAS: 919-30-2  | 3-aminopropyltriethoxysilane<br>Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger   | 1 - <3 %      |

TO OBTAIN MORE INFORMATION ON THE HAZARDS OF THE SUBSTANCES CONSULT SECTIONS 11, 12 AND 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

- Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

- Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### By skin contact:

- Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

- Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

- Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

## 5. FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Suitable extinguishing media:

- Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvlent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

- IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

- As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

- Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

Additional provisions:

- Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

- Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by inter-connecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

- See section 8.

6.2 Environmental precautions:

- Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

- It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

- See sections 8 and 13.

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### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

##### A.- Precautions for safe manipulation

- Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

##### B.- Technical recommendations for the prevention of fires and explosions

- Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

##### C.- Technical recommendations to prevent ergonomic and toxicological risks

- PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

##### D.- Technical recommendations to prevent environmental risks

- Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

#### 7.2 Conditions for safe storage, including any incompatibilities:

##### A.- Technical measures for storage

|                |           |
|----------------|-----------|
| Minimum Temp.: | 2 °C      |
| Maximum Temp.: | 35 °C     |
| Maximum time:  | 24 Months |

##### B.- General conditions for storage

- Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

- Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

- Substances whose occupational exposure limits have to be monitored in the workplace:
- EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification              | Occupational exposure limits |  |                     |
|-----------------------------|------------------------------|--|---------------------|
| Bisphenol A<br>CAS: 80-05-7 | WEL (8h)                     |  | 2 mg/m <sup>3</sup> |
|                             | WEL (15 min)                 |  |                     |

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### 8.2 Exposure controls:


#### A.- Individual protection measures, such as personal protective equipment

- As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see sub-section 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection


| Pictogram   | PPE                               | Remarks  |
|---|-----------------------------------|--|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

#### C.- Specific protection for the hands



| Pictogram   | PPE                                       | Remarks  |
|---|---|--|
| <br>Mandatory hand protection | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

- As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

#### D.- Ocular and facial protection

| Pictogram  | PPE         | Remarks   |
|--|-------------|---|
| <br>Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |



#### E.- Body protection

| Pictogram   | PPE   | Remarks   |
|---|---|---|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <br>Mandatory complete body protection | Safety footwear for protection against chemical risk      | Replace boots at any sign of deterioration.   |

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### F.- Additional emergency measures

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

### Environmental exposure controls:

- In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

#### Appearance:

|                          |                  |
|--------------------------|------------------|
| Physical state at 20 °C: | Liquid           |
| Appearance:              | Fluid            |
| Colour:                  | Light yellow     |
| Odour:                   | Aminic           |
| Odour threshold:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

#### Volatility:

|  |                      |
|--|----------------------|
| Boiling point at atmospheric pressure: | ca. 135 °C           |
| Vapour pressure at 20 °C:              | 7 Pa                 |
| Vapour pressure at 50 °C:              | 412.09 Pa (0.41 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *     |

#### Product description:

|  |                           |
|--|---------------------------|
| Density at 20 °C:                            | 1020 kg/m <sup>3</sup>    |
| Relative density at 20 °C:                   | 1.01 - 1.03               |
| Dynamic viscosity at 20 °C:                  | 1000 cP                   |
| Kinematic viscosity at 20 °C:                | 416.51 mm <sup>2</sup> /s |
| Kinematic viscosity at 40 °C:                | Non-applicable *          |
| Concentration:                               | Non-applicable *          |
| pH:  | Non-applicable *          |
| Vapour density at 20 °C:                     | Non-applicable *          |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *          |
| Solubility in water at 20 °C:                | Non-applicable *          |
| Solubility properties:                       | Immiscible                |
| Decomposition temperature:                   | Non-applicable *          |

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|                               |                  |
|-------------------------------|------------------|
| Melting point/freezing point: | Non-applicable * |
| Flammability:                 |                  |
| Flash Point:                  | > 100 °C         |
| Flammability (solid, gas):    | Non-applicable * |
| Autoignition temperature:     | 380 °C           |
| Lower flammability limit:     | 1.3 % Volume     |
| Upper flammability limit:     | 13 % Volume      |
| Particle characteristics:     |                  |
| Median equivalent diameter:   | Non-applicable   |

### 9.2 Other information:

#### Information with regard to physical hazard classes:

|  |                  |
|--|------------------|
| Explosive properties:  | Non-applicable * |
| Oxidising properties:  | Non-applicable * |
| Corrosive to metals:   | Non-applicable * |
| Heat of combustion:  | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

#### Other safety characteristics:

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

- No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

- Chemically stable under the conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

- Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

- Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight   | Humidity       |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable     | Not applicable   | Precaution              | Precaution | Not applicable |

### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Precaution          | Not applicable        | Avoid alkalis or strong bases |

### 10.6 Hazardous decomposition products:

- See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

- The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

#### B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

#### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.

- Contact with the eyes: Produces serious eye damage after contact.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3. IARC: Non-applicable

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: May impair fertility

#### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

#### F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

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Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification   | Acute toxicity  |                      | Genus  |
|--|-----------------|----------------------|--------|
| benzyl alcohol<br>CAS: 100-51-6                                | LD50 oral       | 500 mg/kg            | Rat    |
|  | LD50 dermal     | 2500 mg/kg           |        |
|  | LC50 inhalation | 11 mg/L (4 h) (ATEi) |        |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | LD50 oral       | 1030 mg/kg           | Rat    |
|  | LD50 dermal     | 1100 mg/kg (ATEi)    |        |
|  | LC50 inhalation | >20 mg/L (4 h)       |        |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | LD50 oral       | 1090 mg/kg           | Rat    |
|  | LD50 dermal     | >5000 mg/kg          |        |
|  | LC50 inhalation | 11 mg/L (4 h) (ATEi) |        |
| Bisphenol A<br>CAS: 80-05-7                                    | LD50 oral       | 5100 mg/kg           | Rat    |
|  | LD50 dermal     | 3000 mg/kg           | Rabbit |
|  | LC50 inhalation | >5 mg/L (4 h)        |        |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2          | LD50 oral       | 2169 mg/kg           | Rat    |
|  | LD50 dermal     | >5000 mg/kg          |        |
|  | LC50 inhalation | >20 mg/L (4 h)       |        |
| 3-aminopropyldimethylamine<br>CAS: 109-55-7                    | LD50 oral       | 1870 mg/kg           | Rat    |
|  | LD50 dermal     | >5000 mg/kg          |        |
|  | LC50 inhalation | >20 mg/L (4 h)       |        |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2                  | LD50 oral       | 1491 mg/kg           | Rat    |
|  | LD50 dermal     | 4000 mg/kg           | Rabbit |
|  | LC50 inhalation | >20 mg/L (4 h)       |        |

ACUTE TOXICITY ESTIMATE (ATE MIX):

| ATE mix    |                                       | Ingredient(s) of unknown toxicity |
|------------|---------------------------------------|-----------------------------------|
| Oral       | 827.08 mg/kg (Calculation method)     | 0 %                               |
| Dermal     | 11000 mg/kg (Calculation method)      | 0 %                               |
| Inhalation | 19.13 mg/L (4 h) (Calculation method) | 0 %                               |

## 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

### 12.1 Toxicity:

Acute toxicity:

| Identification   | Concentration |                 | Species                 | Genus      |
|--|---------------|-----------------|-------------------------|------------|
| benzyl alcohol<br>CAS: 100-51-6                                | LC50          | 646 mg/L (48 h) | Leuciscus idus          | Fish       |
|  | EC50          | 400 mg/L (24 h) | Daphnia magna           | Crustacean |
|  | EC50          | 79 mg/L (3 h)   | Scenedesmus subspicatus | Algae      |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | LC50          | 110 mg/L (96 h) | Leuciscus idus          | Fish       |
|  | EC50          | 388 mg/L (48 h) | N/A                     | Crustacean |
|  | EC50          | Non-applicable  |                         |            |



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| Identification  | Concentration |                  | Species                   | Genus      |
|---|---------------|------------------|---------------------------|------------|
|   | LC50          | EC50             |                           |            |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0         | LC50          | 88 mg/L (96 h)   | Oryzias latipes           | Fish       |
|   | EC50          | 15 mg/L (48 h)   | Daphnia magna             | Crustacean |
|   | EC50          | 20 mg/L (72 h)   | Selenastrum capricornutum | Algae      |
| Bisphenol A<br>CAS: 80-05-7                           | LC50          | 4.6 mg/L (96 h)  | Pimephales promelas       | Fish       |
|   | EC50          | 3.8 mg/L (48 h)  | Daphnia magna             | Crustacean |
|   | EC50          | Non-applicable   |                           |            |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2 | LC50          | Non-applicable   |                           |            |
|   | EC50          | Non-applicable   |                           |            |
|   | EC50          | 84 mg/L (72 h)   | Scenedesmus subspicatus   | Algae      |
| 3-aminopropyldimethylamine<br>CAS: 109-55-7           | LC50          | 122 mg/L (96 h)  | Leuciscus idus            | Fish       |
|   | EC50          | 68.3 mg/L (24 h) | Daphnia magna             | Crustacean |
|   | EC50          | 56.2 mg/L (72 h) | Scenedesmus subspicatus   | Algae      |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2         | LC50          | 934 mg/L (96 h)  | Danio rerio               | Fish       |
|   | EC50          | 331 mg/L (48 h)  | N/A                       | Crustacean |
|   | EC50          | 603 mg/L (72 h)  | Desmodesmus subspicatus   | Algae      |

### Chronic toxicity:

| Identification   | Concentration |                | Species             | Genus      |
|--|---------------|----------------|---------------------|------------|
|  | NOEC          | EC50           |                     |            |
| benzyl alcohol<br>CAS: 100-51-6                                | NOEC          | 48.897 mg/L    | N/A                 | Fish       |
|  | NOEC          | 51 mg/L        | Daphnia magna       | Crustacean |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | NOEC          | Non-applicable |                     |            |
|  | NOEC          | 3 mg/L         | Daphnia magna       | Crustacean |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | NOEC          | Non-applicable |                     |            |
|  | NOEC          | 4.7 mg/L       | Daphnia magna       | Crustacean |
| Bisphenol A<br>CAS: 80-05-7                                    | NOEC          | 0.16 mg/L      | Pimephales promelas | Fish       |
|  | NOEC          | 3.16 mg/L      | Daphnia magna       | Crustacean |
| 3-aminopropyldimethylamine<br>CAS: 109-55-7                    | NOEC          | Non-applicable |                     |            |
|  | NOEC          | 3.64 mg/L      | Daphnia magna       | Crustacean |

### 12.2 Persistence and degradability:

| Identification   | Degradability |                | Biodegradability |          |
|--|---------------|----------------|------------------|----------|
|  | BOD5          | NOEC           | Concentration    | Period   |
| benzyl alcohol<br>CAS: 100-51-6                                | BOD5          | Non-applicable | Concentration    | 100 mg/L |
|  | COD           | Non-applicable | Period           | 28 days  |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 94 %     |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | BOD5          | Non-applicable | Concentration    | 7 mg/L   |
|  | COD           | Non-applicable | Period           | 28 days  |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 8 %      |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | BOD5          | Non-applicable | Concentration    | 14 mg/L  |
|  | COD           | Non-applicable | Period           | 28 days  |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 49 %     |

# Epoxy DPM

## Damp Tolerable Epoxy DPM (Part B - Hardener)

| Identification                                | Degradability |                | Biodegradability |                |
|---|---------------|----------------|------------------|----------------|
| Bisphenol A<br>CAS: 80-05-7                   | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|   | COD           | Non-applicable | Period           | 14 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 0 %            |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2 | BOD5          | Non-applicable | Concentration    | Non-applicable |
|   | COD           | Non-applicable | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 67 %           |

### 12.3 Bioaccumulative potential:

| Identification  | Bioaccumulation potential |          |
|---|---------------------------|----------|
| benzyl alcohol<br>CAS: 100-51-6                       | BCF                       | 0.3      |
|   | Pow Log                   | 1.1      |
|   | Potential                 | Low      |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0         | BCF                       | 3        |
|   | Pow Log                   | 0.18     |
|   | Potential                 | Low      |
| Bisphenol A<br>CAS: 80-05-7                           | BCF                       | 67       |
|   | Pow Log                   | 3.32     |
|   | Potential                 | Moderate |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2 | BCF                       |          |
|   | Pow Log                   | 0.22     |
|   | Potential                 |          |

### 12.4 Mobility in soil:

| Identification   | Absorption/desorption |                         | Species    | Genus                           |
|--|-----------------------|-------------------------|------------|---------------------------------|
| benzyl alcohol<br>CAS: 100-51-6                                | Koc                   | Non-applicable          | Henry      | Non-applicable                  |
|  | Conclusion            | Non-applicable          | Dry soil   | Non-applicable                  |
|  | Surface tension       | 3.679E-2 N/m (25 °C)    | Moist soil | Non-applicable                  |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | Koc                   | 928                     | Henry      | 4.46E-4 Pa·m <sup>3</sup> /mol  |
|  | Conclusion            | Low                     | Dry soil   | No                              |
|  | Surface tension       | Non-applicable          | Moist soil | No                              |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | Koc                   | 1300                    | Henry      | Non-applicable                  |
|  | Conclusion            | Low                     | Dry soil   | Non-applicable                  |
|  | Surface tension       | Non-applicable          | Moist soil | Non-applicable                  |
| Bisphenol A<br>CAS: 80-05-7                                    | Koc                   | 796                     | Henry      | 1.013E-6 Pa·m <sup>3</sup> /mol |
|  | Conclusion            | Low                     | Dry soil   | No                              |
|  | Surface tension       | 3.76E-3 N/m (364.43 °C) | Moist soil | No                              |

### 12.5 Results of PBT and vPvB assessment:

- Non-applicable

### 12.6 Other adverse effects:

- Not described

### 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Waste management (disposal and evaluation):

- Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

- In accordance with Annex II of UK REACH the provisions related to waste management are stated UK legislation: The Waste Regulations 2011.

### 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

- With regard to ADR 2021 and RID 2021:



- 14.1 UN number: UN2735
- 14.2 UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5- trimethylcyclohexylamine)
- 14.3 Transport hazard class(es): 8
- Labels: 8
- 14.4 Packing group: II
- 14.5 Environmental hazards: No
- 14.6 Special precautions for user  
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:  
Non-applicable

Transport of dangerous goods by sea

- With regard to IMDG 39-18:



- 14.1 UN number: UN2735
- 14.2 UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- 14.3 Transport hazard class(es): 8
- Labels: 8
- 14.4 Packing group: II
- 14.5 Marine pollutant: No
- 14.6 Special precautions for user  
Special regulations: 274  
EmS Codes: F-A, S-B  
Physico-Chemical properties: see section 9  
Limited quantities: 1L  
Segregation group: SGG18
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:  
Non-applicable

# Epoxy DPM

## Damp Tolerable Epoxy DPM (Part B - Hardener)

Transport of dangerous goods by air

- With regard to IATA/ICAO 2021:



- 14.1 UN number: UN2735
- 14.2 UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- 14.3 Transport hazard class(es): 8
- Labels: 8
- 14.4 Packing group: II
- 14.5 Environmental hazards: No
- 14.6 Special precautions for user
- Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

### 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

- Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

### 16: OTHER INFORMATION

Legislation related to safety data sheets:

- This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H412: Harmful to aquatic life with long lasting effects.
- H360F: May damage fertility.
- H302+H332: Harmful if swallowed or if inhaled.
- H314: Causes severe skin burns and eye damage.

Texts of the legislative phrases mentioned in section 3:

- The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

# Epoxy DPM

## Damp Tolerable Epoxy DPM (Part B - Hardener)

### GB CLP Regulation:

- Acute Tox. 4: H302 - Harmful if swallowed.
- Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.
- Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
- Eye Dam. 1: H318 - Causes serious eye damage.
- Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Repr. 1B: H360F - May damage fertility.
- Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Skin Sens. 1B: H317 - May cause an allergic skin reaction.
- STOT SE 3: H335 - May cause respiratory irritation.

### Advice related to training:

- Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

- <http://echa.europa.eu>
- <http://eur-lex.europa.eu>

### Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- LC50: Lethal Concentration 50
- EC50: Effective concentration 50
- LogPOW: Octanolwater partition coefficient
- Koc: Partition coefficient of organic carbon
- UFI: unique formula identifier
- IARC: International Agency for Research on Cancer